

ABSTRACT OF THE DISCLOSURE

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5 A laser-diode-pumped solid-state laser apparatus  
includes a laser rod, and laser diode devices that generate  
pumping light. Optical unit such as a reflection mirror and  
an optical waveguide medium is provided at a position in a  
laser resonator near a laser optical axis and not blocking  
the optical axis. A photo-detector detects a quantity of  
fluorescence generated from solid-state laser medium. The  
10 fluorescence quantity is compared with a predetermined value  
or a previously measured value. Thus degradation status of  
a laser diode light source is constantly diagnosed.